

What is claimed is:

1. A method for processing a cell, comprising the steps of irradiating a cell or a living tissue with a laser beam through an optical fiber, and cutting off, removing or boring a cell wall and/or a cell membrane or an entirety of the cell thus irradiated.

2. The method set forth in claim 1, wherein the laser beam has a wavelength of 500 nm or less.

3. The method set forth in claim 1 or 2, wherein the cell is irradiated with the laser through reflection and condensing.

4. The method set forth in claim 3, wherein the reflection and condensing are effected through a chip of quartz glass.

5. The method set forth in claim 4, wherein a surface of the quartz glass chip is coated with a metal.

6. The method set forth in claim 5, wherein the coating metal is at least one metal selected from the group consisting of aluminum, platinum, gold, palladium and/or oxides thereof.

7. The method set forth in any one of claims 1 to 6, wherein the laser is at least one laser selected from the group consisting of an YAG laser, an excimer laser, an Ar ion laser, a nitrogen laser and a nitrogen-excited laser.

8. The method set forth in any one of claims 1 to 7, which further comprises a step of introducing a foreign matter into the cell and/or the living cell through a laser-irradiated portion thereof after irradiation with the laser beam.

9. The method set forth in claim 8, wherein the foreign matter is at least one selected from the group consisting of a genetic substance, a protein, an organelle, a physiologically active substance and an indicating agent.

10. The method set forth in claim 9, wherein the genetic substance is at least one selected from the group consisting of a DNA, an RNA, an oligonucleotide, a plasmid, a chromosome, an artificial chromosome, an organelle DNA, and a nucleic acid analogue.

11. ~~The method set forth in any one of claims 1 to 10, wherein the optical fiber is hollow.~~

12. The method set forth in claim 11, wherein a hollow space of the optical fiber is filled with an inert gas.

13. The method set forth in claim 12, wherein the inert gas is at least one gas selected from the group consisting of a nitrogen gas, an argon gas and a helium gas.

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14. The method set forth in any one of claims 11 to 13, wherein a wall surface of a hollow space of the optical fiber is coated with a metal.

15. A transformed body, wherein a genetic substance is introduced into a cell by using the method in claim 10.

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